AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9 (canceled).

Claim 10 (currently amended): An optical transmitter ~~according to claim 8, wherein~~ comprising;

an input terminal for accepting an electrical binary signal,

an electrical-optical conversion means for converting an electrical signal to an optical signal,

an amplifier for amplifying an input signal applied to said input terminal to level requested for operating said electrical-optical conversion means, and applying the amplified electrical signal to said electrical-optical conversion means,

said electrical-optical conversion means having a traveling wave type electrode operating to restrict bandwidth of an output light of said electrical-optical conversion means,

wherein

said electrical-optical conversion means is a Mach Zehnder light intensity modulator having a traveling wave type electrode,

bandwidth of optical output of said Mach Zehnder light intensity modulator is restricted because of loss of said traveling wave type electrode and by using mismatching of phase velocity of electric wave propagating on said traveling wave type electrode and optical wave propagating in an optical waveguide having refractive index depending upon electrical field generated by said electric wave,

a precoding means is provided at an input stage of said amplifier,

said precoding means provides an output which is the same as the previous output when an input binary digital signal is 0, and an output which differs from the previous output when an input digital signal is 1, and

said traveling wave type electrode is designed so that phase change of optical wave propagating in said optical waveguide depending upon said electrical field has waveforms of a ternary duobinary signal.

Claim 11 (original): An optical transmitter according to claim 10, wherein said electrical-optical conversion means provides the maximum level of optical output for an input electrical signal having the maximum level and the minimum level, the minimum level of optical output for an input electrical signal having middle level between said maximum level and said minimum level, and optical phase relating to said maximum level of said optical signal is opposite of optical phase relating to said minimum level of said optical signal.

Claim 12 (original): An optical transmitter according to claim 11, wherein said electrical-optical conversion means is a Mach Zehnder light intensity modulator having a pair of electrodes, each of which is a traveling wave type electrode having bandwidth restriction property, and electrical signals applied to each electrodes are binary signals having opposite polarities with each other.

Claim 13 (currently amended): An optical transmitter according to claim [[9]] 10, wherein traveling direction of said electrical signal in said electrode is opposite to traveling direction of optical signal in said optical waveguide.

Claim 14 (currently amended): An optical transmitter according to claim [[9]] 10, wherein said Mach Zehnder light intensity modulator is provided on a substrate of Z-cut Lithium-Niobate.

Claim 15 (currently amended): An optical transmitter according to claim [[9]] 10, wherein said Mach Zehnder light intensity modulator is provided on a substrate of X-cut Lithium-Niobate.

Claim 16 (currently amended): An optical transmitter according to claim [[8]] 10, wherein loss in said traveling wave type electrode at f0/2 is always larger than loss at frequency higher than f0/2, where f0 is clock frequency of said electrical binary signal.

Claim 17 (currently amended): An optical transmitter according to claim [[9]] 10, wherein modulation efficiency of said Mach Zehnder light intensity modulator at f0/2 is always larger than that at frequency higher than f0/2, where f0 is clock frequency of said electrical binary signal.

Claim 18 (canceled).

Claim 19 (currently amended): An optical transmitter ~~according to claim 1, wherein~~ comprising;

an input terminal for accepting an electrical binary signal,

bandwidth restriction means for restricting bandwidth of said electrical binary signal,

an electrical-optical conversion means for converting said electrical signal which is bandwidth restricted by said bandwidth restriction means to an optical signal,

an amplifier for amplifying an input signal of said electrical-optical conversion means so that said input signal has enough level for operating said electrical-optical conversion means,

wherein said bandwidth restriction means locates between an output of said amplifier and an

input of said electrical-optical conversion means, and

said electrical-optical conversion means is a Mach Zehnder light intensity modulator provided on a substrate of X-cut Lithium-Niobate.

Claims 20-23 (canceled).

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